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**PATENT COOPERATION TREATY**  
**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and PCT Rule 70)

Applicant's or agent's file reference:  15-356	FOR FURTHER ACTION: See Form PCT/IPEA/416	
International application No. PCT/JP03/11673	International filing date (day/month/year) 12. 09. 2003	Priority date (day/month/year) 26. 11. 2002
International Patent Classification (IPC) or national classification and IPC Int. Cl. 7 B24B5/04, B24B9/00		
Applicant MUSASHI SEIMITSU INDUSTRY CO., LTD.		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising</p> <p>a. <input checked="" type="checkbox"/> a total of <u>5</u> sheets (8 sheets in the English version), as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No.I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>		
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of the invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under PCT Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>		

Date of submission of the demand 26. 03. 2004	Date of completion of this report 10. 12. 2004
Name and mailing address of the IPEA/JP Facsimile No.	Authorized officer Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.  
PCT/JP03/11673**I. Basis of the report**

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
  - This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
    - international search (under Rules 12.3 and 23.1(b))
    - publication of the international application (under Rule 12.4).
    - international preliminary examination (under Rules 55.2 and/or 55.3).
  
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
  - The international application as originally filed/furnished
  - the description:  
pages 4, 5, 7 to 12 (4, 6 to 11, 13 to 22 in the English version), as originally filed/furnished  
pages\* 1 to 3 and 6 (1 to 3, 5 to 12 in the English version), received by this Authority on September 17, 2004  
pages\*                   , received by this Authority on
  - the claims:  
Nos. 5 to 8, as originally filed/furnished  
Nos.\*                   , as amended (together with any statement) under Article 19  
Nos.\* 1 to 4, received by this Authority on September 17, 2004  
Nos.\*                   , received by this Authority on
  - the drawings:  
pages/Figs. 1 to 12, as originally filed/furnished  
pages/Figs.\*                   , received by this Authority on  
pages/Figs.\*                   , received by this Authority on
  - a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
  
3.  The amendments have resulted in the cancellation of:
  - the description, pages \_\_\_\_\_
  - the claims, Nos. \_\_\_\_\_
  - the drawings, sheets/fig \_\_\_\_\_
  - the sequence listing (specify):\_\_\_\_\_
  - any table(s) related to sequence listing (specify):\_\_\_\_\_
  
4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c))
  - the description, pages \_\_\_\_\_
  - the claims, Nos. \_\_\_\_\_
  - the drawings, sheets/fig \_\_\_\_\_
  - the sequence listing (specify):\_\_\_\_\_
  - any table(s) related to sequence listing (specify):\_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

<b>International application No.</b> <b>PCT/JP03/11673</b>
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<b>Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</b>
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**1. Statement**

Novelty (N)	Claims 1 to 8	Yes
	Claims	No
Inventive step (IS)	Claims	Yes
	Claims 1 to 8	No
Industrial applicability (IA)	Claims 1 to 8	Yes
	Claim	No

**2. Citations and explanations (PCT Rule 70.7)**

Document 1: JP 7-108306 A (Nippon Steel Corporation)

25 April, 1995; Claims, Fig.1 and Fig.4

Document 2: JP 7-24712 A (Kabushiki Kaisha Hakko)

27 January, 1995; Par. Nos. [0009] to [0021]; Fig.2

Document 3: JP7-276197 A (Matsumoto Kokan Kabushiki Kaisha)

24 October, 1995; Par. No. [0032], Fig.3

**Regarding Claims 1 to 4:**

Document 1, newly cited in this Report, describes that the outer peripheral surface of a work is ground by a rotary grindstone and a rotary brush in the mentioned order.

The invention according to the above-described claims is not substantially different from the matters described in Document 1 except that it has mechanism different from that for grinding by the rotary grindstone and the rotary brush in the mentioned order.

However, Document 2 cited in the ISR describes mounting the rotary brush to one side of the rotary grindstone to be rotated along with the rotary grindstone as a mechanism for grinding by the rotary grindstone and the rotary brush in the mentioned order.

Therefore, it would be easy for a person skilled in that art to apply the mechanism described in Document 2 as a mechanism for grinding by the rotary grindstone and the rotary brush in the mentioned order described in Document 1.

**Regarding Claims 5 to 8:**

Document 1 does not describe clearly a process for making the diameter of a rotary brush large during grinding.

The invention according to the above-described claims is not substantially different from the matters described in Document 1 except that it has, in a sort, a different process for making the diameter of the rotary brush large, other than the matters mentioned in claims 1 to 4.

However, Document 3 cited in the ISR describes a process for making the diameter of the rotary brush large by means of the centrifugal force.

Therefore, it would be easy for a person skilled in the art to apply the process described in Document 3 as a process for making the diameter of the rotary brush described in Document 1 large.